

INNO-FLOOR FOX ASPARTHANE® BASECOAT

Polyaspartic-Based, Two-Component, Solvent-Free, Fast Setting Coating

Description

FOX ASPARTHANE® BASECOAT, Polyaspartic-based, two-component, high chemical resistance, fast-curing, low viscosity, solvent-free, glossy, colored base coating material.

Fields of Application

- Areas exposed to moderate/light traffic loads
- Areas requiring chemical resistance
- Production areas
- Aircraft hangars
- Garages
- Airports
- Hotels and shopping malls
- Supermarkets, stores, and showrooms
- Hospitals and nursing homes
- Clinics
- Schools and daycare centers
- Chemical and pharmaceutical industries
- Laboratories
- Areas where hygiene is required
- Decorative works can be done with **FOX DECO FLAKE** and colored quartz.

Advantages

- High chemical and mechanical resistance (4 times stronger than epoxy).
- Cures quickly (can be opened to pedestrian traffic after approximately 2 hours).
- Aliphatic coating.
- Easy to maintain and clean.
- Provides hygienic environments.
- Impermeable to liquids.
- Provides a glossy topcoat finish.
- High adhesion strength.
- Contains no volatile organic compounds (VOC-solvents).

Technical Specifications

Density			1,40±0,05 gr/cm ³
Colour			Ral colours
Pendulum Hardness	König DIN 53317	28 Days	170 sec.
Taber Abrasion	ASTM 4060 CS10 1000 cycles,		1 kg 22 mg
Adhesion Strength	by Breaking Concrete		>3,15 N/mm ²
Percentage of Total Solids			%100
Dilution			No Dilution
Application Surface Temperature			+10°C /+30°C
Shore D Hardness		7 Days	75
Working Time			~45 min
Over Coating Time			~1 hr
Pedestrian Traffic			~2 hr
Fully Cured Time			7 days
Recommended Thickness			0,2 mm-1 mm

The above values are given for +23°C and 50% relative humidity. High temperatures shorten the time, low temperatures extend the time.



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Chemical Resistance

Acetic Acid %100	±	Ammonium Hydroxide %100	+	Phosphate Ester Based Hydraulic Oil	+
Lactic Acid %45	+	Potassium Hydroxide %10	+	Sodium Bicarbonate	+
Citric Acid	±	Potassium Hydroxide %20	+	Tri sodium Phosphate	+
Phosphoric Acid	+	Sodium Hydroxide %50	+	Butadiene Solution	+
Stearic Acid	+	Sodium Hydroxide %10	+	Methanol	+
Sulphuric Acid %10	+	Isopropyl Alcoho	+	Transmission Oil	+
Sulphuric Acid %50	±	Hydrogen Peroxide	+	Servo Direction Oil	+
Muriatic Acid %10	+	Pickle Water	+	Super Benzoin	+
Deionize Water	+	Mustard	+	Antifreeze	+
Chlorine Water %10	+	Red Wine	+	Brake Fluid	+
Vinegar Water %5	+	Brine Water 310 gr/lit	+	Hot Tire Resistance	+
Sugared Water %10	+	Urine	+		
Battery Water	±	Excrement	+		

It is recommended to use (+). Conditional use (+ -) is recommended. Colour change may occur; it should be cleaned within 1 hour.

Colour change may occur due to the effects of chemicals. This research was done at room temperature. High temperature values and / or mixtures of chemicals can affect chemical resistance.

System Details and Coverage

System Details			Product	Consumption	
Primer	Primer		1 or 2 layer ASPARTHANE® PRIMER	150-250 gr/m ²	
	Surface roughness <1 mm		1 unit FOX EPOTHANE® series+ 0,5 unit silica sand 60-70 AFS (0,1-0,3 mm) by weight	200-500 gr/m ² 100-250 gr/m ²	
	Surface roughness up to 2 mm		1 unit FOX EPOTHANE® series + 1 unit silica sand 60-70 AFS (0,1-0,3 mm) by weight	200-500 gr/m ² 200-500 gr/m ²	
Coating System	FOX ASPARTHANE® Solid Color System	Self	Coating	1 or 2 layer FOX ASPARTHANE® BASECOAT	1,0-1,4 kg/m ²
		Rulo	Coating	1 or 2 layer FOX ASPARTHANE® BASECOAT	300-500 gr/m ²
			Topcoat Optional	FOX ASPARTHANE® CLEARCOAT	150-250 gr/m ²
	FOX ASPARTHANE® Flake System		Basecoat	1 layer FOX ASPARTHANE® BASECOAT	300-500 gr/m ²
			Theme	FOX® ARCYLIC FLAKE	100-500 gr/m ²
			Topcoat	2 layers FOX ASPARTHANE® CLEARCOAT	200-300 gr/m ²
	FOX ASPARTHANE® Quartz System 1		Basecoat	1 layer FOX ASPARTHANE® BASECOAT	300-500 gr/m ²
			Theme	Coloured Quartz	1,0-2,0 kg/m ²
			Topcoat	2 layers FOX ASPARTHANE® CLEARCOAT	200-300 gr/m ²
	FOX ASPARTHANE® Quartz System 2		Basecoat	1 layer FOX ASPARTHANE® BASECOAT	300-500 gr/m ²
			Theme	Coloured Quartz	1,0-2,0 kg/m ²
			Basecoat	1 layers FOX ASPARTHANE® CLEARCOAT	150-250 gr/m ²
Theme			Coloured Quartz	1,0-2,0 kg/m ²	
Topcoat			2 layers FOX ASPARTHANE® CLEARCOAT	200-300 gr/m ²	

The above values are theoretical and do not include the need for additional materials depending on surface porosity, profile, differences in levelling and weakening.



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Surface Quality

The concrete substrate must be solid and have sufficient compressive strength (at least 25 N/mm²), a minimum tensile strength of 1.5 N/mm², and a moisture content of no more than 4%. The surface temperature should be at least +10°C, and the dew point of the substrate should be at least +3°C above the surface temperature. The substrate must be clean, dry, and free from all contaminants such as dirt, oil, grease, coatings, curing agents, etc.

Application Procedure

Surface Preparation

The concrete substrate to be treated should be prepared using abrasive equipment (Shot Blasting, milling, diamond grinding, etc.) to remove the cement slurry and obtain a porous surface. Weak concrete parts should be removed from the surface, and small voids and holes must be completely exposed. Dust created during this process should be cleaned using an industrial vacuum cleaner. Surface repairs, filling of voids, and leveling should be done with a mortar made by mixing 60-70 AFS (0.1-0.3 mm) quartz sand with **FOX EPOTHANE® PRIMER** series primer.

Application Conditions

- The surface moisture content must be below 4%.
- Test method: CM measurement or oven drying method.
- No rising moisture according to ASTM (Polyethylene sheet test).
- Relative humidity should be a maximum of 60%.
- Attention should be paid to dew formation and condensation. If condensation occurs on the coating, it should be dried using a dry mop.
- Dew formation and water vapor condensation on uncoated or newly coated surfaces will damage the coating. To prevent this, the surface temperature must be at least +3°C above the dew point.

Important Considerations for Application,

Surface Temperature	: Minimum +10°C - Maximum +30°C
Ambient Temperature	: Minimum +10°C - Maximum +30°C
Material Temperature	: Minimum +10°C - Maximum +30°C

Mixing

Before starting the mix, ensure that the product temperatures are between +15°C and +25°C. Component A of **FOX ASPARTHANE® BASECOAT** contains pigments and fillers. Mix component A thoroughly with an electric mixer and the appropriate mixing paddle until a homogeneous color is achieved and there is no remaining product at the bottom or sides of the container. After completely adding component B to component A, continue mixing for at least 3 minutes until a homogeneous mixture is obtained.

Mixing Tools: Electric mixer (300-400 RPM) with an epoxy/polyurethane resin mixing paddle.

Application

Priming

The surface to be treated with **FOX ASPARTHANE® BASECOAT** must be primed with the **FOX ASPARTHANE® PRIMER** series primer. The surface temperature (minimum +10°C) must be carefully observed. Application of **FOX ASPARTHANE® BASECOAT** must be done within the application time after priming.

Coating

Self-Leveling Application

FOX ASPARTHANE® BASECOAT is poured onto the surface and applied evenly with a notched trowel. Once the coating reaches the proper consistency, it should be rolled with a spiked roller to remove air bubbles. If the spiked roller application is delayed, roller marks may appear on the surface.

Roller Application

FOX ASPARTHANE® BASECOAT is poured onto the surface in equal amounts and intervals. It is applied evenly using a short-pile roller. The application should be done in two coats.

Cleaning the Application Tools

After application, the tools and equipment used should be cleaned with solvent. Once **FOX ASPARTHANE® BASECOAT** has cured, it can only be removed mechanically.

Key Points to Consider



- The concrete surface should be at least 3 weeks old before applying a polyaspartic/epoxy/polyurethane coating. For floors on earth-based foundations, a vapor barrier must be created, and the building's roof, walls, doors, and windows should be completed. The ambient and surface temperatures must be between +10°C and +30°C.
- Materials should be brought to the application site 1-2 days before use to adjust to the ambient conditions.
- In cold weather applications, the ambient and substrate temperatures should be raised. For increased workability, the products should be stored at +20°C to +25°C before use.
- During the application, rain, dust, wind, animals, and insects should be prevented from entering the area while the coating is still fresh.
- In resin-based systems, pot life and curing times are affected by ambient temperature, substrate temperature, and humidity. Curing slows down at low temperatures, extending pot life, re-coating time, and working time. At high temperatures, curing accelerates, shortening pot life, re-coating time, and working time. The ambient and substrate temperatures should not fall below the specified minimum temperatures to ensure full curing of the product. After the application, the coating must be protected from direct water contact for at least 24 hours. Water exposure will cause softening and blistering, damaging the coating, which will need to be completely removed and reapplied.
- Consumption rates are given for ideal conditions at 20°C surface and ambient temperature. Actual consumption may vary depending on surface structure and ambient temperature. Poor surfaces and cold weather conditions will result in increased consumption.
- Mixing should always be done using a 300-400 RPM electric mixer and the specified epoxy/polyurethane resin mixing paddle. Failure to use the specified mixing paddle will introduce air into the product, causing air bubbles to form on the coating after application.

Packaging

10 kg set

Component A: 7.4 kg metal tin

Component B: 2.6 kg metal tin

Shelf Life

When stored properly at room temperature, away from direct sunlight between +10°C and +30°C, the shelf life is 6 months from the date of manufacture.

Storage

It should be stored in its unopened original packaging, in a cool and dry environment, protected from frost. In short-term storage, a maximum of 3 pallets should be placed on top of each other and shipment should be made with a first-in, first-out system. In long-term storage, pallets should not be stacked on top of each other.

Health and Safety Precautions

It is dangerous to approach storage and application areas with fire. Storage and application areas must be ventilated. During the application, work clothes, protective gloves, goggles and masks should be used in accordance with occupational and occupational health rules. During storage and application, it should not come into contact with the skin and eyes, if it comes into contact, it should be washed immediately with plenty of water and soap, and if swallowed, a doctor should be consulted immediately. Food and beverage materials should not be brought into the application areas.

It should be stored out of the reach of children. For detailed information, the Safety Data Sheet (Material Safety Data Sheet) should be consulted.

Disclaimer

The data contained in this technical document is based on our scientific and practical knowledge. SARTECH Yapı Malzemeleri San. ve Tic. Ltd. Şti. is only responsible for the quality of the product. Our company cannot be held responsible for the consequences that may occur due to misuse and/or other than the written suggestions about where and how the product will be used. For detailed information, the safety data sheet and technical data sheet should be consulted or our company officials should be contacted.



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